CUSTOMER NO.: 24498

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

Claims 1-19 are cancelled.

20. (new) (A power supply comprising:

a source of an energizing supply voltage;

a first capacitor;

a second capacitor;

a switch for periodically coupling said first capacitor and said second capacitor to form a capacitive voltage divider with respect to said energizing supply voltage to produce a first portion of an output in said second capacitor; and

an impedance coupled to said source of said energizing supply voltage and to said second capacitor in a manner that bypasses said first capacitor for producing a second portion of the output in said second capacitor.

- 21. (new) The power supply of claim 20, wherein said switch is coupled to said second capacitor for selectively coupling said first capacitor to said second capacitor in a negative feedback manner to regulate said second supply voltage.
- 22. (new) The power supply of claim 20, wherein the switch is responsive to a control signal from a control circuit which senses said second portion of the output and compares said sensed voltage with a reference voltage, for selectively coupling said first capacitor to said second capacitor.

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- 23. (new) The power supply of claim 20, wherein said switch is coupled between said first and second capacitors and responsive to a control signal from a control circuit for selectively coupling said first and second capacitors.
- 24. (new) The power supply of claim 20, wherein the switch comprises a shunt circuit across said second capacitor for selectively coupling said first and said second capacitors.
- 25. (new) The power supply of claim 20, wherein the switch comprises at least one transistor.
- 26. (new) The power supply of claim 20, wherein a first diode is coupled between the first and second capacitors, and wherein said second capacitor has a first terminal coupled to a reference potential.
- 27. (new) The power supply of claim 26, wherein a second diode is coupled between the first capacitor and said reference potential.
- 28. (new) The power supply of claim 20, wherein the source of periodic input supply voltage comprises an AC source coupled to a rectifier.

CUSTOMER NO.: 24498

29. (new) The power supply of claim 20, wherein said switch varies a charge transfer between the first and second capacitors when one of said first and second capacitors is charged in a first direction, and is prevented from varying a charge transfer between first and second capacitors when said one of said first and second capacitors is charged in a second direction opposite said first direction.